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ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

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IMPORTANT: Mark all packages and papers with contract and/or order numbers. DATE OF ORDER CONTRACT NO. ORDER NO. 05/19/2015 EP-W-10-056 0084 ITEM NO. SUPPLIES/SERVICES QUANTITY UNIT UNIT AMOUNT QUANTITY ORDERED PRICE ACCEPTED (a) (c) (e) **(f)** (g) pages) and the contractor's proposal dated April 2, 2015. The task order funding amount is established at \$49,900 which the contractor is not authorized to exceed. Any expenditure above this amount is at the contractor's own risk. The task order is fully funded. This is a time and material task order. TOCOR: Laura Lopez Admin Office: SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460 Accounting Info: 15-T-31P-303DD2-2585-HQ00BM00-1531SFP008-001 BFY: 15 Fund: T Budget Org: 31P Program (PRC): 303DD2 Budget (BOC): 2585 Job #: HQ00BM00 DCN - Line ID: 1531SFP008-001 Period of Performance: 05/19/2015 to 08/31/2015 0001 Analysis of Generation and Management for 49,900.00 Waste Streams Containing Dioxin and Waste Streams containing Mercury The obligated amount of award: \$49,900.00. The total for this award is shown in box 17(i). \$49,900.00 TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

Task Order Statement of Work Analysis of Generation and Management for Waste Streams containing Dioxin and Waste Streams containing Mercury

OBJECTIVE

This Statement of Work requests support for research and analysis of wastes containing dioxin and wastes containing mercury. These wastes were identified as potentially having waste management issues that could affect the National Capacity Assessment determinations that were presented in the 2014 National Capacity Assessment Report. This task will be completed in phases which are described in the Task Section of this Statement of Work.

BACKGROUND

Section 104(c)(9) of CERCLA requires states to provide an assurance of the availability of hazardous waste treatment or disposal capacity to manage wastes expected to be generated within their State for twenty years before EPA can expend any Superfund remedial action Trust funds in the States. EPA has finalized two National Capacity Assessment pursuant to the 1993 "Guidance for Capacity Assurance Planning" ("CAP Guidance", OSWER Directive #9010.02). The first assessment was finalized on November 1996 and the other on February 12, 2015. Office of Solid Waste (OSW, currently reorganized as Office of Resource Conservation and Recovery (ORCR)) in OSWER has supported this type of work since the late 1980's. ORCR has the expertise to conduct and evaluate the hazardous waste generation and management analyses necessary to support the Superfund Office to meet the CERCLA Section 104(c)(9) requirement. The assessment and the more detailed analyses conducted under this Task Order are based on data from the RCRAInfo system that is managed by ORCR as well as other data sources available that help define the generation and management of hazardous wastes. This work is related to the work conducted under Task Order #30.

TASKS

TASK 1: Generation and Management Analyses for Recurrent Wastes Containing Dioxin

The contractor shall support EPA by identifying generation and management trends of recurrent wastes for the last 25 years for all state and federal wastes, both hazardous and nonhazardous that can contain dioxin. The CAP Guidance defines recurrent waste as "waste generated from continuous and intermittent (e.g., leak collection and oil changes) processes, such as industrial processes. Recurrent hazardous waste includes all hazardous waste other than that generated from non-recurrent activities such as clean-ups." The contractor shall also determine the management trends for wastes containing dioxin and identify any innovative technologies being developed to management these wastes. Phone calls to generators and managers of dioxin wastes may be needed to verify the data in RCRAInfo and other information sources. The contractor shall support ORCR to define and conduct the following analyses, per state/US Territory, that provides analytical results that include:

- Identify all wastes streams and RCRA waste codes that can potentially contain dioxin.
- Lists of generators of the dioxin wastes throughout the years. The generators will be characterized using data such as NAICS codes, generator status (LQG, SQG, CESQG, or state generator), OECA Import/Export data base and ownership (federal, state, private facility).
- Location of the generation sources shall include a US map containing geographic details such as on or near Indian Lands, EJ communities, water sheds, and major ecological systems.
- Summarize and characterize all the dioxin waste streams generated using data sources such as the Biennial Report (BR) Data, state data, NPDES data, TRI. Characterization shall include waste form, source of generation, radioactivity, other constituents present in the waste streams, estimated levels of

- hazardous constituents, distinguish primary versus secondary wastes (treatment residuals and derived-from wastes).
- Total volumes of recurrent wastes both hazardous and nonhazardous per state per, per industrial sector, per source and nationally and may be needed to provide context to percentage amounts of dioxin wastes that are generated on an annual basis.
- Evaluate the waste minimization information in the 2013 BR data and other sources to estimate the effects of applicable programs on dioxin waste generation.
- Management data for wastes containing dioxin shall be analyzed in terms of the Capacity Assurance Planning (CAP) management categories and will be identified as onsite management, offsite management at commercial facilities and offsite management at captive facilities.
- Capacity for the management of dioxin wastes will be identified for each unit managing dioxin wastes.

 Any treatment concerns and limitations will be documented such as the amount of other wastes managed in the units.
- A map showing the current generation and management behavior including the role of transfer facilities.
- Document all Federal, State and local solid and hazardous waste regulatory and economic issues that can affect generation and management decisions for dioxin wastes (Land Disposal Restrictions, delisting exemptions, siting laws, permit processes, landfill taxes, fuel costs, etc).
- Identify any innovative technologies being developed for management of wastes containing dioxin.
- Project the future generation and management of wastes containing dioxin through 2019, 2034, and 2039.
- A graphic describing the generation and management trends and projecting the next 20 years of generation and management.
- Document and address any concerns with the quality of the data used to conduct the analyses.
- Determine the need for additional data and analyses.
- Develop an Issue Paper and graphics on the findings of the analyses.

Before developing the Issue Paper described above, the contactor shall first provide a memo that provides the specific data sources that will be used for the analyses, data Table blueprints needed to organize the data in a manner that clearly shows how analytical results will be determined/illustrated, and descriptions of computing logic that will be used to extract data especially from large data systems such a RCRAInfo along with any recommendations for graphics and an outline for the memo. Once the content of the memo are approved the contractor shall provide data extractions for the States of Ohio, Massachusetts and Illinois to test that the programming logic is accurately extracting the data for the analyses. If these states do not generate and manage the recurrent wastes containing dioxin, then three other states shall be selected for the testing. Finalizing the computing extraction logic could be an iterative process of pulling data, analyzing preliminary results, revising computing logic, pulling data, analyzing results, redoing computing logic, etc. All assumptions and any issues or limitations concerning the data shall be provided and the TOCOR must approve the computing logic before the contractor performs data extractions nationally for all states. To help understand and verify the data results, the contractor shall conduct internet searches and make phone calls to experts. The phone calls are limited to no more than nine (9) entities when asking similar questions. All phone conversations and internet searches should be well documented in the Issue Paper.

TASK 2: Generation and Management Analyses for One-time/Cleanup Wastes Containing Dioxin

The contractor shall support EPA by identifying generation and management trends of one-time or cleanup wastes for the last 25 years for all state and federal wastes, both hazardous and nonhazardous that can contain dioxin. One-time wastes are defined in the CAP Guidance as "any contaminated materials or treatment residuals (e.g., soils, sludges, debris, and equipment) generated by any of the following remediation or cleanup activities: (1) Superfund remedial actions; (2) state remedial actions; (3) Superfund removal actions; (4) corrective actions at RCRA hazardous waste management units; (5) closures of RCRA hazardous waste management units; and (6) other remediation activities, including those resulting from state and private emergency removals, environmental

audits and property transfers." Cleanup wastes also include remediation of leaks from underground storage tanks. The contractor shall also determine the management trends for cleanup wastes containing dioxin. The contractor shall support ORCR by defining the issues and conducting the following analyses to provide analytical results that include:

- Using the list of dioxin wastes streams and RCRA waste codes developed in Task 1 determine if there are any additional cleanup wastes that can potentially contain dioxin.
- Per state/US territory develop lists of generators of dioxin cleanup wastes throughout the last 25 years.
 The generators will be characterized using data such as NAICS codes, generator status (LQG, SQG, CESQG, or state generator), OECA Import/Export data base and ownership (federal, state, private facility).
- Location of the generation sources shall include a US map containing geographic details such as on or near Indian Lands, EJ communities, water sheds, and major ecological systems.
- Summarize and characterize all the dioxin waste streams generated using data sources such as the Biennial Report (BR) Data, state data, NPDES data, TRI. Characterization shall include waste form, source of generation, radioactivity, other constituents present in the waste streams, estimated levels of hazardous constituents, distinguish primary versus secondary wastes (treatment residuals and derived-from wastes).
- Total volumes of cleanup wastes both hazardous and nonhazardous per state per, per industrial sector, per source and nationally and may be needed to provide context to percentage amounts of dioxin wastes that are generated on an annual basis.
- Evaluate the waste minimization information in the 2013 BR data and other sources to estimate the effects of applicable programs on the generation of dioxin cleanup wastes.
- Management data for cleanup wastes containing dioxin shall be analyzed in terms of the Capacity Assurance Planning (CAP) management categories and will be identified as onsite management, offsite management at commercial facilities and offsite management at captive facilities.
- Capacity for the management of dioxin wastes will be identified for each unit managing dioxin cleanup wastes. Any treatment concerns and limitations will be documented such as the amount of other waste types managed in the units.
- A map showing the current generation and management behavior including the role of transfer facilities.
- Document all Federal, State and local solid and hazardous waste regulatory and economic issues that have
 historically and can currently affect generation and management decisions for dioxin wastes (Land
 Disposal Restrictions, delisting exemptions, siting laws, permit processes, Brownfield's tax incentives,
 fuel costs, etc).
- Identify any innovative technologies being developed for management of wastes containing dioxin.
- Project the future generation and management of wastes containing dioxin through 2019, 2034, and 2039.
 This will include identifying cleanup sites with known dioxin contamination and industrial sectors or areas of concern.
- A graphic describing the generation and management trends and projecting the next 20 years of generation and management. This information for future cleanups must be conducted on a state-by-state since it has the potential to affect the CAP determinations.
- Document and address any concerns with the quality of the data used to conduct the analyses.
- Determine the need for additional data and analyses.
- Develop an Issue Paper and graphics on the findings of the analyses.

Before developing the Issue Paper described above, the contactor shall first provide a memo that provides the specific data sources that will be used for the analyses, data Table blueprints needed to organize the data in a manner that clearly shows how analytical results will be determined/illustrated, and descriptions of computing logic that will be used to extract data especially from large data systems such a RCRAInfo along with any recommendations for graphics and an outline for the memo. Once the content of the memo are approved the

contractor shall provide data extractions for the States of Ohio, Massachusetts and Illinois to test that the programming logic is accurately extracting the data for the analyses. If these states do not generate and manage cleanup wastes containing dioxin, then three other states shall be selected for the testing. Finalizing the computing extraction logic could be an iterative process of pulling data, analyzing preliminary results, revising computing logic, pulling data, analyzing results, redoing computing logic, etc. All assumptions and any issues or limitations concerning the data shall be provided and the TOCOR must approve the computing logic before the contractor performs data extractions nationally for all states. To help understand and verify the data results, the contractor shall conduct internet searches and make phone calls to experts. The phone calls are limited to no more than nine (9) entities when asking similar questions. All phone conversations and internet searches should be well documented in the Issue Paper.

TASK 3: Generation and Management Analyses for Recurrent Wastes Containing Mercury

The contractor shall support EPA by identifying generation and management trends of recurrent wastes for the last 25 years for all state and federal wastes, both hazardous and nonhazardous that can contain mercury. The CAP Guidance defines recurrent waste as "waste generated from continuous and intermittent (e.g., leak collection and oil changes) processes, such as industrial processes. Recurrent hazardous waste includes all hazardous waste other than that generated from non-recurrent activities such as clean-ups." The contractor shall also determine the management trends for wastes containing mercury and identify any innovative technologies being developed to management these wastes. Phone calls to generators and managers of mercury wastes may be needed to verify the data in RCRAInfo and other information sources. The contractor shall support ORCR to define and conduct the following analyses, per state/US Territory, that provides analytical results that include:

- Identify all wastes streams and RCRA waste codes that can potentially contain mercury. Identify high level mercury wastes requiring retorting as the treatment standard separately from wastes that do not require recovery.
- Lists of generators of the mercury wastes throughout the years. The generators will be characterized using data such as NAICS codes, generator status (LQG, SQG, CESQG, or state generator), OECA Import/Export data base and ownership (federal, state, private facility).
- Location of the generation sources shall include a US map containing geographic details such as on or near Indian Lands, EJ communities, water sheds, and major ecological systems.
- Summarize and characterize all the mercury waste streams generated using data sources such as the Biennial Report (BR) Data, state data, NPDES data, TRI. Characterization shall include waste form, source of generation, radioactivity, other constituents present in the waste streams, estimated levels of hazardous constituents, distinguish primary versus secondary wastes (treatment residuals and derived-from wastes).
- Total volumes of recurrent wastes both hazardous and nonhazardous per state per, per industrial sector, per source and nationally and may be needed to provide context to percentage amounts of mercury wastes that are generated on an annual basis.
- Evaluate the waste minimization information in the 2013 BR data and other sources to estimate the effects of applicable programs on mercury waste generation.
- Management data for wastes containing mercury shall be analyzed in terms of the Capacity Assurance Planning (CAP) management categories and will be identified as onsite management, offsite management at commercial facilities and offsite management at captive facilities.
- Capacity for the management of mercury wastes will be identified for each unit managing mercury wastes. This analyses includes identifying all facilities that have submitted letters to DOE certifying that they will not sell elemental mercury internationally but will store elemental mercury until they can transfer it to the DOE long-term storage facility. Any treatment concerns and limitations will be documented such as the amount of other wastes managed in the units and uncertainty how long the private facilities will continue to accept mercury for the DOE storage facility.

- Determine how much mercury has been sent for long term storage before and after the Mercury Export Ban.
- Identify historical and current market international and domestic demand for elemental mercury. Illustrate trends for the demand over the last 25 years (especially before and after the Mercury Export Ban) along with the projected demand for the years 2019, 2034 and 2039.
- A map showing the current generation and management behavior including the role of transfer facilities.
- Document all Federal, State and local solid and hazardous waste regulatory and economic issues that can affect generation and management decisions for mercury wastes (Land Disposal Restrictions, delisting exemptions, siting laws, permit processes, landfill taxes, fuel costs, etc).
- Identify any innovative technologies being developed for management of wastes containing mercury.
- Project the future generation and management of wastes containing mercury through 2019, 2034 and 2039.
- A graphic describing the generation and management trends and projecting the next 20 years of generation and management.
- Document and address any concerns with the quality of the data used to conduct the analyses.
- Determine the need for additional data and analyses.
- Develop an Issue Paper and graphics on the findings of the analyses.

Before developing the Issue Paper described above, the contactor shall first provide a memo that provides the specific data sources that will be used for the analyses, data Table blueprints needed to organize the data in a manner that clearly shows how analytical results will be determined/illustrated, and descriptions of computing logic that will be used to extract data especially from large data systems such a RCRAInfo along with any recommendations for graphics and an outline for the memo. Once the content of the memo are approved the contractor shall provide data extractions for the States of Ohio, Massachusetts and Illinois to test that the programming logic is accurately extracting the data for the analyses. If these states do not generate and manage recurrent wastes containing mercury, then three other states shall be selected for the testing. Finalizing the computing extraction logic could be an iterative process of pulling data, analyzing preliminary results, revising computing logic, pulling data, analyzing results, redoing computing logic, etc. All assumptions and any issues or limitations concerning the data shall be provided and the TOCOR must approve the computing logic before the contractor performs data extractions nationally for all states. To help understand and verify the data results, the contractor shall conduct internet searches and make phone calls to experts. The phone calls are limited to no more than nine (9) entities when asking similar questions. All phone conversations and internet searches should be well documented in the Issue Paper.

TASK 4: Generation and Management Analyses for One-time/Cleanup Wastes Containing Mercury

The contractor shall support EPA by identifying generation and management trends of one-time or cleanup wastes for the last 25 years for all state and federal wastes, both hazardous and nonhazardous that can contain mercury. One-time wastes are defined in the CAP Guidance as "any contaminated materials or treatment residuals (e.g., soils, sludges, debris, and equipment) generated by any of the following remediation or cleanup activities: (1) Superfund remedial actions; (2) state remedial actions; (3) Superfund removal actions; (4) corrective actions at RCRA hazardous waste management units; (5) closures of RCRA hazardous waste management units; and (6) other remediation activities, including those resulting from state and private emergency removals, environmental audits and property transfers." Cleanup wastes also include remediation of leaks from underground storage tanks. The contractor shall also determine the management trends for cleanup wastes containing mercury. The contractor shall support ORCR by defining the issues and conducting the following analyses to provide analytical results that include:

• Using the list of mercury wastes streams and RCRA waste codes developed in Task 3 determine if there are any additional cleanup wastes that can potentially contain mercury.

- Per state/US territory develop lists of generators of mercury cleanup wastes throughout the last 25 years. The generators will be characterized using data such as NAICS codes, generator status (LQG, SQG, CESQG, or state generator), OECA Import/Export data base and ownership (federal, state, private facility).
- Location of the generation sources shall include a US map containing geographic details such as on or near Indian Lands, EJ communities, water sheds, and major ecological systems.
- Summarize and characterize all the mercury waste streams generated using data sources such as the Biennial Report (BR) Data, state data, NPDES data, TRI. Characterization shall include waste form, source of generation, radioactivity, other constituents present in the waste streams, estimated levels of hazardous constituents, distinguish primary versus secondary wastes (treatment residuals and derived-from wastes).
- Total volumes of cleanup wastes both hazardous and nonhazardous per state per, per industrial sector, per source and nationally and may be needed to provide context to percentage amounts of mercury wastes that are generated on an annual basis.
- Evaluate the waste minimization information in the 2013 BR data and other sources to estimate the effects of applicable programs on the generation of mercury cleanup wastes.
- Management data for cleanup wastes containing mercury shall be analyzed in terms of the Capacity Assurance Planning (CAP) management categories and will be identified as onsite management, offsite management at commercial facilities and offsite management at captive facilities.
- Capacity for the management of mercury wastes will be identified for each unit managing mercury cleanup wastes. Any treatment concerns and limitations will be documented such as the amount of other waste types managed in the units.
- A map showing the current generation and management behavior including the role of transfer facilities.
- Document all Federal, State and local solid and hazardous waste regulatory and economic issues that have historically and can currently affect generation and management decisions for mercury wastes (Land Disposal Restrictions, delisting exemptions, siting laws, permit processes, Brownfield's tax incentives, fuel costs, etc).
- Identify any innovative technologies being developed for management of wastes containing mercury.
- Project the future generation and management of wastes containing mercury through 2019, 2034 and 2039. This will include identifying cleanup sites with known mercury contamination and industrial sectors or areas of concern.
- A graphic describing the generation and management trends and projecting the next 20 years of generation and management. This information for future cleanups must be conducted on a state-by-state since it has the potential to affect the CAP determinations.
- Document and address any concerns with the quality of the data used to conduct the analyses.
- Determine the need for additional data and analyses.
- Develop an Issue Paper and graphics on the findings of the analyses.

Before developing the Issue Paper described above, the contactor shall first provide a memo that provides the specific data sources that will be used for the analyses, data Table blueprints needed to organize the data in a manner that clearly shows how analytical results will be determined/illustrated, and descriptions of computing logic that will be used to extract data especially from large data systems such a RCRAInfo along with any recommendations for graphics and an outline for the memo. Once the content of the memo are approved the contractor shall provide data extractions for the States of Ohio, Massachusetts and Illinois to test that the programming logic is accurately extracting the data for the analyses. If these states do not generate and manage cleanup wastes containing mercury, then three other states shall be selected for the testing. Finalizing the computing extraction logic could be an iterative process of pulling data, analyzing preliminary results, revising computing logic, pulling data, analyzing results, redoing computing logic, etc. All assumptions and any issues or limitations concerning the data shall be provided and the TOCOR must approve the computing logic before the contractor performs data extractions nationally for all states. To help understand and verify the data results, the

contractor shall conduct internet searches and make phone calls to experts. The phone calls are limited to no more than nine (9) entities when asking similar questions. All phone conversations and internet searches should be well documented in the Issue Papers.

TASK 5: National Summary Report for the Generation and Management of wastes Containing Dioxin and Waste Containing Mercury

Once all the Issue Papers have been finalized the information from all four papers shall be combined into a Draft Report that summarizes all the state specific information and analytical results, limitations with data and analyses, and provides comprehensive management analyses for wastes containing mercury and wastes containing dioxin from a national perspective. When the contractor uses data from a large data base such as RCRAInfo, the final Report from the contractor shall include supporting documentation including programmed queries and datasets used for analyses in Microsoft Access format.

DELIVERABLES

All deliverables are due prior to August 31, 2015. The EPA TOCOR will issue a Technical Directive to specify a date for each of the following deliverables that do not mention timeframes for submission. Schedule dates are negotiable upon agreement by the TOCOR. For the item(s) above, if data usability or availability within the time frame of the work in this Task Order is an issue, the contractor shall present analytical results to the extent that data/information can be used and analyzed and/or provide a write-up of how it can be done if data or resources are limited.

Task 1 and 3 Deliverables	Due Dates
Memo with data sources, format for data Table blueprints, computing logic and ideas for graphics and an outline for the Issue Papers	Two Weeks from the date of task order award
Data extractions for the States of Ohio, Massachusetts and Illinois	Two weeks after receiving approval from TOCOR on the computing logic and Table Blueprint formats
Draft Issue Papers on the analytical findings	Four weeks after TOCOR approval of the test extractions for Ohio, Illinois and Massachusetts
Final Issue Papers on the analytical findings	Two weeks after receiving comments from TOCOR on draft papers

Task 2 and 4 Deliverables	Due Dates
Memo with data sources, format for data Table blueprints, computing logic and ideas for graphics and an outline for the Issue Papers	Two weeks from the date of task order award
Data extractions for the States of Ohio, Massachusetts and Illinois	Two weeks after receiving approval from TOCOR on the computing logic and Table Blueprint formats.

Draft Issue papers on the analytical findings	Four weeks after TOCOR approval of the test extractions for Ohio, Illinois and Massachusetts
Final Issue Papers on the analytical findings	Two weeks after receiving comments from the TOCOR on draft papers

Task 5 Deliverables	Due Dates
Draft Report that incorporate all four issue papers into a national summary Report	To be determined and specified in a TD issued by the TOCOR.
Final Report and all supporting documentation including datasets	To be determined and specified in a TD issued by EPA TOCOR

TECHNICAL DIRECTION

In accordance with EPAAR 1552.237-71 – Technical Direction, the Task Order Contracting Officer's Representative (TOCOR) will provide technical direction during performance of this task order.

AMENDMENT OF SOLICITATION/MODIFI	CATION OF C	ONTRACT		CONTRACT ID CODE	PAGE 1	OF PAGES
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15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	168		LECTRONIC BIGNATURE	16C. DATE SIGNED 08/31/2015
(Signature of person authorized to sign)			1 -	(Signature of Contracting Officer)		00/31/2013

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CONTINUATION SHEET	EP-W-10-056/0084/001	2	2

NAME OF OFFEROR OR CONTRACTOR ICF INCORPORATED, L.L.C.

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)		AMOUNT (F)
	Period Of Performance End Date changed from				
	31-AUG-15 to 29-FEB-16				
	Maximum Potential Expiration Date changed to:	ļ			
	02/29/2016				
	20/04/02/5				
	Delivery: 08/31/2015 Delivery Location Code: SRRPOD				
	SRRPOD				
	US Environmental Protection Agency				
	William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W.				
	Mail Code: 3805R				•
	Washington DC 20460 USA				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive	1			
	www2.epa.gov/financial/contracts Durham NC 27711				
	FOB: Destination				
	Period of Performance: 05/19/2015 to 02/29/2016				
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AMENDME	NT OF SOLICITATION/MODIFIC	ATION OF C	ONTRACT		1. CONTRACT ID CODE	PAG	E OF PAGES
2. AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. RE	QUISITION/PURCHASE REQ. NO.	5. PROJE	1 4 CT NO. (If applicable)
002		See Blo	ck 16C			1	
6. ISSUED BY	CODE	SRRPOD		7. A	OMINISTERED BY (If other than Item 6)	CODE	
Superfu Operati 1200 Pe	ronmental Protection nd/RCRA Regional Proc ons nnsylvania Ave, NW ton DC 20460						
	ADDRESS OF CONTRACTOR (No., stree	t county State and	ZIP Code)	9	A. AMENDMENT OF SOLICITATION NO.		·-·
ICF INCO	DRPORATED, L.L.C. E HIGHWAY VA 220316050	, county, state and		x 10 0	DA. MODIFICATION OF CONTRACT/ORDER NP-W-10-056 084 DB. DATED (SEE ITEM 13)	10.	
CODE 07	2648579	FACILITY COL	DE .	- 17	05/19/2015		
	2030313				MENTS OF SOLICITATIONS		
reference to	othe solicitation and this amendment, and TING AND APPROPRIATION DATA (If requedule 13. THIS ITEM ONLY APPLIES TO MAIN AND CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	is received prior uired) RODIFICATION O PURSUANT TO: CT/ORDER IS M H IN ITEM 14, PU	to the opening hour and of the opening hour and of the contracts/orders (Specify authority) THE (ODIFIED TO REFLECT TO THE AUTHORS AND THE AU	CHAN	GES SET FORTH IN ITEM 14 ARE MADE IN TO DMINISTRATIVE CHANGES (such as changes Y OF FAR 43.103(b).	SCRIBED IN	TITEM 14.
	D. OTHER (Specify type of modification	and authority)					
E. IMPORTAN	T: Contractor 🗵 is not.	is required t	o sign this document and	returr	copies to the issuin	g office.	
DUNS Nur TOCOR: 3 PIID: A	mber: 072648579 Laura Lopez Max Expir	e Date:	02/28/2017		solicitation/contract subject matter where feasil		nd Waste
executed inadver Officer task ordincorpo Continuo	d bilateral modificat tently deleted in the . Bilateral modificat der thru 28 February rated herein as an at ed	ion 0002 EPA acq ion 0002 2017, wa tachment	to task ordenisition syst, which exters fully executo this modi	er (tem ndec itec	cation is to re-instate 0084 under EP-W-10-056, on 03 June 2016 by anote the period of performation 25 February 2016 and cation.	which her Co nce of d and	was ntracting subject is
	ND TITLE OF SIGNER (Type or print)				NAME AND TITLE OF CONTRACTING OFFI		
				Fa	ye Sas		
15B. CONTRA	ACTOR/OFFEROR		15C. DATE SIGNED	16B		LECTRONS	
	(Signature of person authorized to sign)			.[_	(Signature of Contracting Officer)		09/22/2016
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NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243
 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-10-056/0084/002
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NAME OF OFFEROR OR CONTRACTOR ICF INCORPORATED, L.L.C.

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
,	(2)	1 (0)	(D)	(11)	(1)
	All other terms and conditions remain unchanged.				
	LIST OF CHANGES:				
	Reason for Modification : Other Administrative				
	Action				
	Period Of Performance End Date changed from				
	29-FEB-16 to 28-FEB-17 Total Amount for this Modification: \$0.00				
	New Total Amount for this Version: \$0.00			•	
	New Total Amount for this Award: \$49,900.00				
	Maximum Potential Expiration Date changed to: 02/28/2017				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency RTP-Finance Center				
	Mail Drop D143-02				
	109 TW Alexander Drive				
	Durham NC 27711				
	Period of Performance: 05/19/2015 to 02/28/2017				
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AMENDME	NT OF SOLICITATION/MODIFICA	ATION OF CONTRACT	•	1. CONTRACT ID CODE	1	PAGE OF PAGES
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002		See Block 16C			RFQ	-DC-15-00134
6. ISSUED BY	CODE	SRRPOD	7. A	DMINISTERED BY (If other than Item 6)	CODE	
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	ADDRESS OF CONTRACTOR (No., street,	county, State and ZIP Code)	(x) ⁹	A. AMENDMENT OF SOLICITATION NO.		
ICF INCO	DRPORATED, L.L.C. E HIGHWAY VA 220316050		x 1 1	OA MODIFICATION OF CONTRACT/ORDER N EP-W-10-056 OB 4 OB DATED (SEE ITEM 13)	10.	
CODE 07	2648579	FACILITY CODE		05/19/2015		
	· · · ·	11. THIS ITEM ONLY APPLIES TO A	MEN			
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E. IMPORTAN		is required to sign this document and				
14. DESCRIP	· ·	Organized by UCF section headings, inc	luding	g solicitation/contract subject matter where feasi	ble.)	
The term TOCOR: The purp	ms and conditions of c Laura Lopez Max Expiro pose of this modificat	e Date: 02/28/2017 tion is to extend the	e p	e hereby incorporated by eriod of performance of conditions remain the sa	this	
Reason Period Maximum Continu Except as pro 15A. NAME A		te changed from 29-Find Date changed to:	02/ A, as			
	· · · · · · · · · · · · · · · · · · ·					16C. DATE SIGNED
15B. CONTR.	2016.	02.25 15C DATE SIGNED 02/25/2016 157 - 05'00'	161	(Signature of Contracting Onto	TANDAF	2/25/16 DEFORM 30 (NEV 10-82)
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NAME OF OFFEROR OR CONTRACTOR
ICF INCORPORATED, L.L.C.

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	SRRPOD				
	US Environmental Protection Agency		l		
	William Jefferson Clinton Building		1		
	1200 Pennsylvania Avenue, N. W.				
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	Washington DC 20460 USA	İ			
	Payment:				
	RTP Finance Center				•
	US Environmental Protection Agency	-			
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
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003	See Block 16C	PR-OLEM-16-00147	
6. ISSUED BY CODE	SRRPOD	7. ADMINISTERED BY (If other than Item 6)	CODE
SRRPOD US Environmental Protection Superfund/RCRA Regional Proc Operations 1200 Pennsylvania Ave, NW			<u> </u>
Washington DC 20460 8. NAME AND ADDRESS OF CONTRACTOR (No., street		DA AMENDMENT OF COLICITATION NO	
ICF INCORPORATED, L.L.C. 9300 LEE HIGHWAY FAIRFAX VA 220316050	, county, State and ZIP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) x 10A. MODIFICATION OF CONTRACT/ORDER N EP-W-10-056 0084 10B. DATED (SEE ITEM 13)	0.
CODE 072648579	FACILITY CODE	05/19/2015	•
	11. THIS ITEM ONLY APPLIES TO	AMENDMENTS OF SOLICITATIONS	
Items 8 and 15, and returning cop separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF 0	rior to the hour and date specified in the pies of the amendment; (b) By acknowle to the solicitation and amendment num DFFERS PRIOR TO THE HOUR AND D r already submitted, such change may le	esolicitation or as amended, by one of the following me edging receipt of this amendment on each copy of the of bers. FAILURE OF YOUR ACKNOWLEDGEMENT TO ATE SPECIFIED MAY RESULT IN REJECTION OF YO be made by telegram or letter, provided each telegram or	thods: (a) By completing fer submitted ; or (c) By BE RECEIVED AT UR OFFER If by
12. ACCOUNTING AND APPROPRIATION DATA (If requ	uired) Net	Increase: \$4	19,942.00
See Schedule	ODIFICATION OF CONTRACTS (ODDES	RS. IT MODIFIES THE CONTRACT/ORDER NO. AS DE	CODIDED IN ITEM 44
X ORDER NO. IN ITEM 10A. FAR 52.243-3: Change	S - Time and Materia CT/ORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AUT T IS ENTERED INTO PURSUANT TO A	THE ADMINISTRATIVE CHANGES (such as changes HORITY OF FAR 43.103(b).	nitrodulus tituta aan aan aan aan aan aan aan aan aan a
E. IMPORTANT: Contractor sis not.	is required to sign this document ar	nd return1 copies to the issuing	g office.
14. DESCRIPTION OF AMENDMENT/MODIFICATION OF DUNS Number: 072648579 TOCOR: Laura Lopez Max Expir PIID: Analysis of Generation Streams Containing Mercury	e Date: 02/28/2017		
The purpose of this bilatera 1. Incorporate within the Ta as specified in Attachment (2. Approve and incorporate h the amount of \$49,942.00; 3. Obligate incremental fund Continued	sk Order Statement of 1); erein the contractor	of Work the additional work	eptember 2016 in
Except as provided herein, all terms and conditions of the	e document referenced in Item 9 A or 10	DA, as heretofore changed, remains unchanged and in t	ull force and effect.
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICE Faye Sas	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
		Jaya San	LECTRONIC BIGNATURE 09/26/2016
(Signature of person authorized to sign)		(Signature of Contracting Officer)	TANDARD FORM 30 (REV. 10-83)

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243
 CONTINUATION SHEET
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 OF

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NAME OF OFFEROR OR CONTRACTOR ICF INCORPORATED, L.L.C.

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	4. Modify the total price ceiling of the task				
	order.				
	Funding in the amount of \$49,942.00 is obligated				
	to this task order, increasing the funding				
	ceiling by \$49,942.00, from \$49,900.00 to				
	\$99,842.00 which the contractor is not authorized				
	to exceed. The contractor exceeds the funding				
	ceiling at its own risk.				
	As an equitable adjustment for the subject				
	changes, the task order ceiling price is hereby				
	increased by \$49,942.00, from \$49,900.00 to				
	\$99,842.00. By signing, the contractor hereby				
	releases the Government from any and all				
	liability for further equitable adjustments attributable to the work specified under this				
	change order. Contractor incurred expenses shall				
	not exceed the task order ceiling price at				
	\$99,842.00.				
	This time and materials task order is fully				
	funded thru its completion date of 28 February				
	2017.				
	COR: Laura Lopez				
	LIST OF CHANGES:				
	Reason for Modification : Change Order				
	Total Amount for this Modification: \$49,942.00		1		
	New Total Amount for this Version: \$99,842.00				
	New Total Amount for this Award: \$99,842.00				
	Obligated Amount for this Modification: \$49,942.00 New Total Obligated Amount for this Award:		l l		
	\$99,842.00				
	CHANGES FOR LINE ITEM NUMBER: 1				
	Total Amount changed			İ	
	from \$49,900.00 to \$99,842.00				
	Obligated Amount for this modification: \$49,942.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:	ŀ			
	16-T-31P-303DD2-2585-HQ00BM00-1631SFP009-001	r			
	Beginning FiscalYear 16				
	Ending Fiscal Year				
	Fund (Appropriation) T Budget Organization 31P				
	Program (PRC) 303DD2				
	Budget (BOC) 2585				
	Job # (Site/Project) HQ00BM00				
	Continued				

 CONTINUATION SHEET
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NAME OF OFFEROR OR CONTRACTOR
ICF INCORPORATED, L.L.C.

AMOUNT
(F)
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Analysis of Generation and Management for Waste Streams containing Dioxin and Waste Streams containing Mercury

Modification to Task Order #84 under Contract # EP-W-10-056

U.S. EPA TOCOR: Laura L Lopez, OLEM/ORCR/PIID/ICAB

Email: <u>lopez.laura@epa.gov</u> Phone Number: 703-308-8482

Performance Period of Task Order 84:

The end date to the performance period was extended to February 28, 2017.

OBJECTIVE OF INTENDED MODIFICATION:

The primary purpose of this Task Order is to help States comply with the CERCLA 104(c)(9) hazardous waste management capacity assurance requirement so they are eligible to receive Superfund money for remedial actions. Last year, EPA conducted an assessment of national hazardous waste demand on management capacity and determined that the demand from wastes containing mercury and wastes containing dioxin needed further study. The intended modification to task order 84 provides EPA with continuous contractor support to finish the analytical work associated with Task Order 84 through its completion date of February 28, 2017.

SCOPE OF WORK FOR MODIFICATION:

TASKS 1 and 2: Generation and Management Analyses for Wastes Containing Dioxin

Additional work under Task 1 and 2: The contactor shall provide the SQL language for all the data queries used to develop for the data bases and reports needed to compile the data necessary to project the future generation and management of wastes containing dioxin through 2019, 2034 and 2039. Automating these analyses will help provide cost savings to the government for future capacity analyses work. The contractor shall also configure two GIS base maps with the dioxin management facilities and generators of dioxin wastes along with Geo-platform layers or data graphics that may include illustrating TRI dioxin releases, ecosystems, EJ populations, location of sensitive areas like schools and hospitals, sources of drinking water, pop-up data about management facilities, etc. One map should portray historical information about dioxin generation and management, and the other map should illustrate the current generation and management information. The data "story" format should be used to help the user understand the analytics and the data trends from past to present. The maps shall follow the EPA metadata style guide and standards necessary to share the data with the public. The maps will be included with the draft issue Papers for Tasks 1 and 2.

TASKS 3 and 4: Generation and Management Analyses for Wastes Containing Mercury

Additional work under Tasks 3 and 4: The contactor shall provide the SQL language for all the data queries used to develop for the data bases and reports needed to compile the data necessary

to project the future generation and management of wastes containing dioxin through 2019, 2034 and 2039. Automating these analyses will help provide cost savings to the government for future capacity analyses work. The contractor shall also configure two GIS base maps with the mercury management facilities and generators of mercury wastes along with Geo-platform layers and data graphics that may include TRI mercury releases, ecosystems, EJ populations, location of sensitive areas like schools and hospitals, sources of drinking water, pop-up data about management facilities, etc. One map should portray historical information about mercury generation and management, and the other map should illustrate the current generation and management information. The data "story" format and associated graphics should be used to help the user understand the analytics and the data trends from past to present. The maps shall follow the EPA metadata style guide and standards necessary to share the data with the public. The maps will be included with the draft issue Papers for Tasks 3 and 4.

DELIVERABLES

The additional maps and data graphics will be submitted with the draft Issue Papers and any EPA comments will be incorporated into the final Issue Papers. EPA TOCOR will issue a technical directive to specify the deliverable due dates for the SQL query language for the data base and data reports. The contractor shall deliver at least one draft and one final draft for each deliverable specified in the technical direction.

AMENDME	NT OF SOLICITATION/MODIFICA	ATION OF CONTRACT		1. CONTRACT ID CODE	. PAGE	OF PAGES
2. AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	L QUISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
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6. ISSUED BY	CODE	SRRPOD	7. AE	MINISTERED BY (If other than Item 6)	CODE	
Superfu Operati 1200 Pe	ronmental Protection nd/RCRA Regional Proc ons nnsylvania Ave, NW ton DC 20460	, <u>.</u>				
8. NAME AND	ADDRESS OF CONTRACTOR (No., street,	county, State and ZIP Code)	(x) 9/	A. AMENDMENT OF SOLICITATION NO.		
9300 LEE	DRPORATED, L.L.C. E HIGHWAY VA 220316050		99 x 10 E	B. DATED (SEE ITEM 11) DA. MODIFICATION OF CONTRACT/ORDER (P-W-10-056) 084 B. DATED (SEE ITEM 13)	NO.	
CODE 07	2648579	FACILITY CODE	7 (05/19/2015		
		11. THIS ITEM ONLY APPLIES T	O AMEND	MENTS OF SOLICITATIONS		
Offers must Items 8 and separate let THE PLACE virtue of this reference to	15, and returning cop- ter or telegram which includes a reference E DESIGNATED FOR THE RECEIPT OF Cop- s amendment you desire to change an offethe the solicitation and this amendment, and ITING AND APPROPRIATION DATA (If required) Edule	rior to the hour and date specified in t ites of the amendment; (b) By acknow to the solicitation and amendment nu PFFERS PRIOR TO THE HOUR AND ralready submitted, such change ma s received prior to the opening hour a irred)	he solicita vledging re mbers. F DATE SP y be made and date s	tion or as amended, by one of the following meceipt of this amendment on each copy of the c AILURE OF YOUR ACKNOWLEDGEMENT TO ECIFIED MAY RESULT IN REJECTION OF YO by telegram or letter, provided each telegram	offer submitted; O BE RECEIVE OUR OFFER If or letter makes	ompleting or (c) By D AT by
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	appropriation date, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMEN			MINISTRATIVE CHANGES (such as changes (OF FAR 43.103(b).		·
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	D. OTHER (Specify type of modification					
E. IMPORTAN	T: Contractor is not.	🗵 is required to sign this document	and return	1 copies to the issui	ng office.	
DUNS Nur	·		including	solicitation/contract subject matter where feas	ible.)	
through condition	28 February 2018 at a			eriod of performance of ne Government. All other		
Reason : Period (Continue		te changed from 28-	-FEB-1		n full force and e	ffect.
	ND TITLE OF SIGNER (Type or print)		16A	NAME AND TITLE OF CONTRACTING OFF		
15B. CONTRA	ACTOR/OFFEROR	15C. DATE SIGNED		UNITED STATES OF AMERICA	ELECTRONIC SIGNATURE	16C. DATE SIGNED 02/22/2017
	(Signature of person authorized to sign)			(Signature of Contracting Officer)		V2/22/201/

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION OUTET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE C)F
CONTINUATION SHEET	EP-W-10-056/0084/004	2	2

NAME OF OFFEROR OR CONTRACTOR

I.C.F. INCORPORATED. L. L. C.

ГЕМ NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Total Amount for this Modification: \$0.00		\Box		
	New Total Amount for this Version: \$0.00				
	New Total Amount for this Award: \$99,842.00			-	
	Maximum Potential Expiration Date changed to :				
	02/28/2018		li		
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center			•	
	Mail Drop D143-02				
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	Durham NC 27711	ľ			
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Superfu Operati 1200 Pe	ronmental Protection nd/RCRA Regional Proc ons nnsylvania Ave, NW ton DC 20460	_					
	ADDRESS OF CONTRACTOR (No., stree	t county State and 7	IP Code)	. I9A	AMENDMENT OF SOLICITATION NO.		
ICF INCO	DRPORATED, L.L.C. E HIGHWAY VA 220316050	, comy, cuto una 2	(x	9B.	DATED (SEE ITEM 11) . MODIFICATION OF CONTRACT/ORDER -W-10-056 .84 . DATED (SEE ITEM 13)	NO.	
CODE 07	2648579	FACILITY CODE		0	5/19/2015		
		11. THIS ITE	M ONLY APPLIES TO AM		ENTS OF SOLICITATIONS		
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X	C. THIS SUPPLEMENTAL AGREEMEN	IT IS ENTERED IN			MINISTRATIVE CHANGES (such as change OF FAR 43.103(b). TY OF:	s in paying office	
	D. OTHER (Specify type of modification	and authority)					
E. IMPORTAN	T: Contractor 🗵 is not.	is required to	sign this document and re	eturn	copies to the issu	ing office.	
14. DESCRIP DUNS .Nur TOCOR: I	TION OF AMENDMENT/MODIFICATION mber: 072648579 Laura Lopez Max Expir	e Date: 0	2/28/2017		e Streams Containing D		i Waste
executed inadversofticer task ordincorpostontinuo Exceptas pro	d bilateral modificat tently deleted in the . Bilateral modificat der thru 28 February rated herein as an at ed	ion 0002 EPA acquion 0002, 2017, was	to task orde: isition syste which extend fully execut to this modi	em oded ted fica ashe	retofore changed, remains unchanged and it	which wa ther Cont ance of s nd and is	ns cracting subject S
15B. CONTRA	ACTOR/OFFEROR	1:	15C. DATE SIGNED		e Sas JNITED STATES OF AMERICA		16C. DATE SIGNED
					Janya Som	ELECTRONIC SIGNATURE	09/22/2016
	(Signature of person authorized to sign)				(Signature of Contracting Officer)		03/22/2010

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243
 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-10-056/0084/002
 PAGE OF 2
 4

NAME OF OFFEROR OR CONTRACTOR
ICF INCORPORATED, L.L.C.

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	All other terms and conditions remain unchanged				
	All other terms and conditions remain unchanged.	ŀ			
	LIST OF CHANGES:				
	Reason for Modification : Other Administrative			1	
	Action		\perp		
	Period Of Performance End Date changed from 29-FEB-16 to 28-FEB-17			İ	
	Total Amount for this Modification: \$0.00	1	1 1		
	New Total Amount for this Version: \$0.00				
	New Total Amount for this Award: \$49,900.00				
	Maximum Potential Expiration Date changed to: 02/28/2017				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				•
	RTP-Finance Center				
	Mail Drop D143-02		li		
	109 TW Alexander Drive				
	Durham NC 27711 Period of Performance: 05/19/2015 to 02/28/2017				
	reflod of reflormance: 03/19/2013 to 02/20/2017				
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